Amendments to the Claims:

Please amend the claims as follows. The following listing of claims replaces all prior versions and listings of claims in this application.

 (Currently Amended) A method of isolating nucleic acid and protein from each other in a sample, said method comprising;

providing a sample that comprises nucleic acid components and protein components;

<u>contacting the sample with a plurality of magnetic particulate solid supports comprising:</u>

contacting said sample with a plurality of first magnetic, particulate solid supports

support wherein nucleic acid components bind to the plurality of first magnetic particulate solid supports in a sequence independent manner;

contacting the sample with a plurality of second magnetic particulate solid
supports support distinct from the first magnetic particulate solid supports support,
wherein protein components contained in the sample bind to the plurality of second
magnetic particulate solid supports support through a chromatographic interaction; and
separating the plurality of first magnetic particulate solid supports support to which are
bound nucleic acid components and the second plurality of magnetic particulate solid supports to
which are bound protein components from unbound components in the sample.

- (Currently Amended) The method of claim 1, wherein the method comprises providing a
 sample that contains DNA and RNA components, and further comprises binding both DNA and
 RNA components to the plurality of first magnetic particulate solid supports support.
- 3. (Currently Amended) The method of claim 1, wherein the method comprises providing a sample that contains RNA components, and further comprises contacting the sample with a plurality of third particulate solid supports support, wherein the first, second and third particulate solid supports are distinct, and wherein RNA components bind to the plurality of third particulate solid supports support.

- (Currently Amended) The method of claim 3, further comprising contacting the sample
 with the plurality of first magnetic particulate solid support and <u>the</u> third particulate solid
 supports support in separate steps.
- (Previously Presented) The method of claim 1, wherein the method comprises isolating nucleic acid and protein components from the same sample.
- (Previously Presented) The method of claim 1, wherein the method comprises providing a sample containing mRNA.
- (Previously Presented) The method of claim 1, wherein the method comprises providing a sample containing genomic DNA.
- (Previously Presented) The method of claim 1, wherein the method comprises isolating total RNA and/or the total DNA from the sample.
- (Previously Presented) The method of claim 1, wherein the method comprises isolating
 the total nucleic acid component from the sample.
- 10. (Previously Presented) The method of claim 1, wherein the method comprises isolating the total protein component from the sample.
- (Previously Presented) The method of claim 1, further comprising providing a sample selected from a food or allied product, and a clinical, environmental or biological sample.
- 12. (Previously Presented) The method of claim 1, further comprising subjecting the sample to a preliminary treatment step to free the nucleic acid and/or protein components from structures or entities in which they may be contained.

- 13. (Currently Amended) The method of claim 1, further comprising providing a sample that comprises one or more cell populations, and subjecting the sample to a cell isolation procedure prior to contacting said sample with said plurality of first and second <u>magnetic</u> particulate solid supports.
- 14. (Previously Presented) The method of claim 13, further comprising separately isolating one or more particular cell populations from the sample
- 15. (Currently Amended) The method of claim 1 or claim 13, further comprising subjecting the sample, or a cell population isolated therefrom, to a cell lysis step prior to contacting said sample with said first plurality of magnetic solid particulate supports
- 16. (Previously Presented) The method of claim 15, further comprising subjecting the cell surface proteins of cells within or isolated from said sample to an in vitro modification procedure prior to the cell lysis step.
- (Previously Presented) The method of claim 1, wherein the sample is not divided at any stage of the method.
- 18. (Currently Amended) The method of claim I, further comprising conducting a cell isolation, lysis, or preliminary treatment step conducted prior to contacting the sample with the phurality of first magnetic particulate solid supports support, and dividing the sample after the cell isolation, lysis, and/or preliminary treatment step.
- (Currently Amended) The method of claim 1, wherein said sample is contacted with said plurality of magnetic particulate solid supports sequentially or simultaneously or in parallel.

- 20. (Original) The method of claim 19, wherein in a first step DNA is isolated from said sample, in a second step RNA is isolated from said sample and in a third step, protein is isolated from said sample, and wherein said steps may be performed in any order.
- 21. (Currently Amended) The method of claim 1, further comprising isolating DNA components on a plurality of the first magnetic particulate solid supports support selected from supports carrying surface carboxyl or hydroxyl groups, silica or silica-based supports, and supports having a polyamine coated surface.
- (Currently Amended) The method of claim I, further comprising binding nucleic acid
 components from the sample to the plurality of first <u>magnetic</u> particulate solid supports support
 in the presence of a detergent.
- 23. (Currently Amended) The method claim 15, further comprising subjecting the sample to a cell lysis step, wherein cell lysis and nucleic acid binding to the plurality of first magnetic particulate solid supports support occur simultaneously or concomitantly.
- 24. (Currently Amended) The method of claim 3, further comprising isolating RNA components from the sample using an RNA-specified capture-probe carried by or attached to, or capable of binding to said plurality of first magnetic particulate solid supports support.
- (Previously Presented) The method of claim 24, wherein said capture probe is or comprises a dT oligonucleotide or dU oligonucleotide.

26.-33. (Canceled)

34. (Currently Amended) The method of claim 1, further comprising providing a plurality of wherein the first magnetic particulate solid supports support has having a positive or negative surface charge.

- 35. (Currently Amended) The method of claim 1, further comprising contacting the sample with the plurality of first magnetic particulate solid supports support in the presence of a plurality of solid particles, wherein the plurality of first particulate solid supports and the plurality of solid particles are of different size.
- 36. (Currently Amended) The method of claim 15 or 23, further comprising lysing the sample in the presence of a plurality of solid particles capable of binding cells, wherein the plurality of solid particles and the plurality of first magnetic particulate solid supports support are of different size.